

*Calamagrostis Fauriei* HACKEL in Bull. Herb. Boiss. (1899) p. 653, et (1904) p. 523; MATSUMURA Ind. Pl. Jap. II. 1. (1905) p. 46; MAKINO et NEMOTO Fl. Jap. ed. 1. (1925) p. 1436, et ed. 2. (1931) p. 1324; HONDA in Journ. Facult. Sci. Imp. Univ. Tokyo, Sect. III, Vol. III. 1. (1930) p. 180.

*Calamagrostis grandiseta* (non TAKEDA) HONDA l. c. p. 181 pro parte.

Nom Nipp. Kanitsuri-nogariyasu.

Hab.

Honshû: Hachimantai, prov. Ugo (M. MATSUDA, no. 23, anno 1935); in monte Yakeishi-dake, prov. Rikuchû (Y. FUKUDA, no. 52, anno 1931); in monte Gassan, prov. Uzen (S. ISHIZUKA, no. 3, anno ?); ibidem (K. HISAUCHI, no. 30, anno 1923); in monte Iidesan, prov. Iwashiro (G. NAKAHARA, no. 21, anno 1903); in monte Shibutsudake, prov. Kôzuke (S. SAKAGUCHI, no. 6, anno 1930); in monte Tanigawa-dake, prov. Kôzuke (Y. SATAKE, anno 1930).

Planta endemica.

## Contributions to the Bryological Flora of Eastern Asia (IV)\*

By

Yoshiwo HORIKAWA

堀川芳雄：東亞産苔蘚植物報告（其四）

43) **Conocephalus conicus** (LINNÉ) NECKER Elem. Bot. III. (1791) p. 1604.

Syn. *Marchantia conica* LINNÉ Sp. pl. II. (1763) p. 1604.

*Fegatella officinalis* RADDI Opusc. sci. d. Bologna II 1818) p. 356.

*Fegatella conica* CORDA Opiz, Beitr. I (1929) p. 649.

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*Conocephalus vulgaris* BISCHOFF in Leop. Nova Acta Acad. Caes. Car. XVII (1835).

*Conocephalus nemorosus* HÜBENER Hep. Germ. (1834) p. 9.

Nom. Jap. Jagoke, Ô-jagoke.

Hab. On moist soil in shady places.

Manchuria: ca. Wei-Hu-Ling [威虎嶺], prov. Kirin (Y. HORIKAWA, July 23, 1935).

Distr. Europe Siberia, Caucasus, Himalaya, China, Korea, Formosa, Liukius Yakushima, Japan Proper, Hokkaidô, Kuriles, North America, Azores, Madeira, Canary Isl.

This is a new addition to the flora of Manchuria.

44. **Preissia quadrata** (SCOPOLI) NEES Naturg. Hep. Eur. IV (1838) p. 135.

Syn. *Marchantia quadrata* SCOPOLI Fl. Carn. (1760) p. 120.

*Marchantia commutata* LINDENBERG Syn. Hep. (1829) p. 101.

*Preissia commutata* NEES Naturg. Leb. Eur. IV (1838) p. 117.

*Chomocarpon quadratus* LINDBERG Hep. utveckl. (1877) p. 6.

Nom. Jap. Aka-zenigoke, Yawara-zenigoke.

Hab. On soil among rocks.

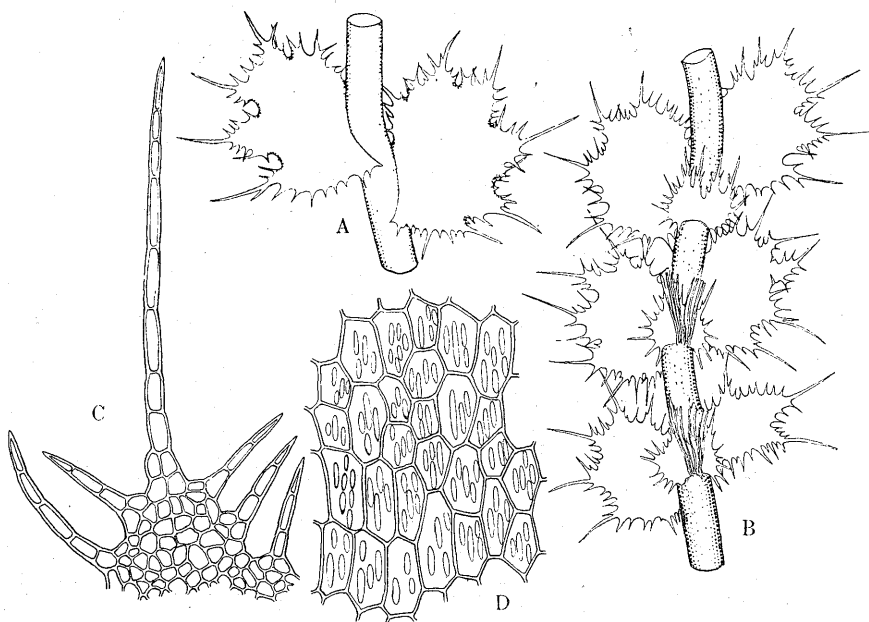
Saghalien: ca. Chikahoro, prov. Motodomari (HORIKAWA, July 24, 1931).

Distr. Europe, Spitzbergen, Siberia, Himalaya, China, Japan Proper, Alaska, Greenland, North America, Mexico.

The species is new to the flora of Saghalien.

45) **Lophozia pilifera** HORIKAWA, sp. nov.

Planta minor, rigida, flavo-viridis, ad 35 mm, longa, cum foliis 2.4 mm. lata, in foliis filicum repens. Caulis ca. 0.22 mm. in diam., brunneus, simplex. Folia caulina remota vel remotiuscula, subrecte patula disticha, concava, in plano late semicordata, 1.2 mm. longa et 1.6 mm. lata, antice parum decurrentia, lata basi inserta, normaliter 4-5-loba, lobis triangulatis et longe acuminatis, ubique ceterum longe pilifera, pilis setaceis simplicibus, apicalibus fere longissimis. Cellulæ foliorum apicales  $15 \times 18 \mu$ , medio  $18 \times 33 \mu$  et basales  $18 \times 45 \mu$ ,



Text-fig. 9. *Lophozia pilifera* HORIKAWA. A. Part of stem, antical view,  $\times 22$ . B. Ditto, postical view,  $\times 18$ . C. Apical portion of leaf,  $\times 120$ . D. Cells from middle of leaf,  $\times 300$ .

A. 莖ノ一部、背面觀 $\times 22$ 。 B. 同上、腹面觀 $\times 18$ 。 C. 葉ノ先端部 $\times 120$ 。 D. 葉ノ中央部位ノ細胞 $\times 300$ 。

parietibus validissimis æqualiter incrassatis; cuticula antica papillis magnis elongatis dense oblecta. Amphigastria caulina magna, 0.7 mm. longa, 0.6 mm. lata, basi radicellifera, utrinque ciliolato laciniis setaceis divergentibus, usque ad basin fere bi-quadrifida, laciniis lanceolatis longe setaceis.

Hab. On the leaves of *Hymenophyllum*.

Formosa : Mt. Taiheizan, prov. Taihoku (S. MATSUURA, Oct. 10, 1934).

This new species is most easily distinguished by the ciliated leaves and epiphyllous habit.

46) ***Trichocoleopsis sacculata***(MITTEN) S. OKAMURA in Bot. Mag. Tokyo, XXV (1911) p. 159.

Syn. *Blepharozia sacculata* MITTEN in Trans. Linn. Soc. London, 2 Ser.

III (1891) p. 200.

*Ptilidium sacculatum* STEPHANI Sp. Hep. IV (1909) p. 42.

Nom. Jap. Miyama-inumukumukugoke.

Hab. On the decayed logs.

In. Quelpært : Mt. Harasan (K. SEN-U, June 16, 1931).

Distr. Japan Proper, Yakushima, Korea, Burma.

This species is new to Quelpært.

47) **Diplophyllum plicatum** LINDBERG in Acta soc. fenn. (1872) p. 235.

Nom. Jap. Futae-urokogoke.

Hab. On the decayed logs.

Korea : Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Distr. Alaska, Saghalien, Kuriles, Hokkaidô, Japan Proper (Honshiu).

This distinct species is new to the flora of Korea.

48) **Diplophyllum taxifolium** (WAHLENBERG) DUMORTIER Rec. d'observ. (1835) p. 16.

Syn. *Jungermannia taxifolia* WAHLENBERG Fl. Lapponica. (1812) p. 389.

*Jungermannia albicans*  $\beta$  *taxifolia* NEES Naturg. Europ. Leberm. (1833) p. 228.

*Diplophylleia taxifolia* TREVISAN in Mem. R. Ist. Lombard. 3. XIII. (1877) p. 420.

Nom. Jap. Hosoba-futaeurokogoke, Hosoba-kooigoke.

Hab. On moist banks.

Korea : Mt. Kongôzan, prov. Kôgen (Y. HORIKAWA, Aug. 5, 1935).

Distr. Europe, Siberia, Quelpært, Yakushima, Japan Proper (Honshiu), Hokkaidô, Saghalien, Alaska, North America.

This is also new to the flora of Korea.

49) **ncalypta ciliata** (HEDWIG) HOFFMANN Deutschl. Fl. II. (1795) p. 27.

Syn. *Leersia ciliata* HEDWIG Descr. I. (1787) p. 49.

*Bryum ciliare* GMEL. Syst. nat. II. (1791) p. 1332.

*Leersia fimbriata* BRIDEL Muse. rec. II. 1. (1798) p. 53.

*Encalypta laciniata* LINDBERG in Acta Soc. sci. Fenn. X. (1871) p. 18.

*Encalypta elongata* FUNCK in BRIDEL Bryol. univ. I. (1826) p. 787.

Nom Jap. Yarikatsuki.

Hab. On soil among the rocks.

Korea : Mt. Hakutôzan, prov. Kanhoku (Y. HORIKAWA, July 31, 1935).

Distr. Europe, Algeria, Abyssinia, Caucasus, Kashmir, Himalaya, Central Asia, Siberia, Amur, Formosa, Japan Proper (Honshiu), North America.

The species is a new addition to the flora of Korea.

50) **Breutelia arundinifolia** (DUBY) FLEISCHER in Musci Fl. Buitenzorg, II. (1902-1904) p. 630.

Syn. *Hypnum arundinifolium* DUBY in MORITZI, System. Verz. (1854-55) p. 131.

*Bartramia gigantea* V. D. BOSCH et LBCOSTE Bryol. jav. I. (1861) p. 160, Pl. 130.

*Bartramia arundinifolia* C. MÜLLER in Gen. Muse. (1901) p. 347.

Hab. On moist soil.

Formosa : Mt. Morrison (Tâtaka-Mayeyama), prov. Tainan (Y. HORIKAWA, Aug. 19, 1932).

Distr. Java, Celebes, Sumatra, Philippines, Yakushima.

This species is new to the flora of Formosa.

51) **Glyphomitrium humillimum** (MITTEN) CARDOT, BROTHERUS in ENGLER et PRANTL natürl. Pflanzenfam. I. 3. 2 Aufl. 11 Bd. (1925) p. 10.

Syn. *Aulacomitrium humillimum* MITTEN in Trans. Linn. Soc. London, 2 Ser. Bot. (1891) p. 161.

Nom. Jap. Sayagoke, Hime-haikaragoke.

Hab. On the bark of trees.

Hokkaidô : ca. Atsukeshi, prov. Kushiro (Y. YAMADA, no. 2, Aug. 1930).

Distr. Japan Proper, Korea (sine loco).

This is a new addition to the flora of Hokkaidô.

52) **Diphyscium fulvifolium** MITTEN in Trans. Linn. Soc. London, 2 Ser. Bot. III. (1891) p. 193.

Nom. Jap. Ikubigoke, Chairō-ikubigoke.

Hab. On the soil banks.

Korea : Kôshû, prov. Chûnan (I. KASHIMURA, May 30, 1935).

Distr. Japan Proper, Yakushima, Formosa.

The species is new to the flora of Korea.

53) **Pogonatum asperrium** BESCHERELLE in Ann. Sci. Nat. 7 Ser. Bot. XVII. (1893) p. 355.

Nom. Jap. Hirohano-kosugigoke.

Hab. On the sandy soil.

Yakushima : ca. Kosugidani (Y. HORIKAWA, July 10, 1933).

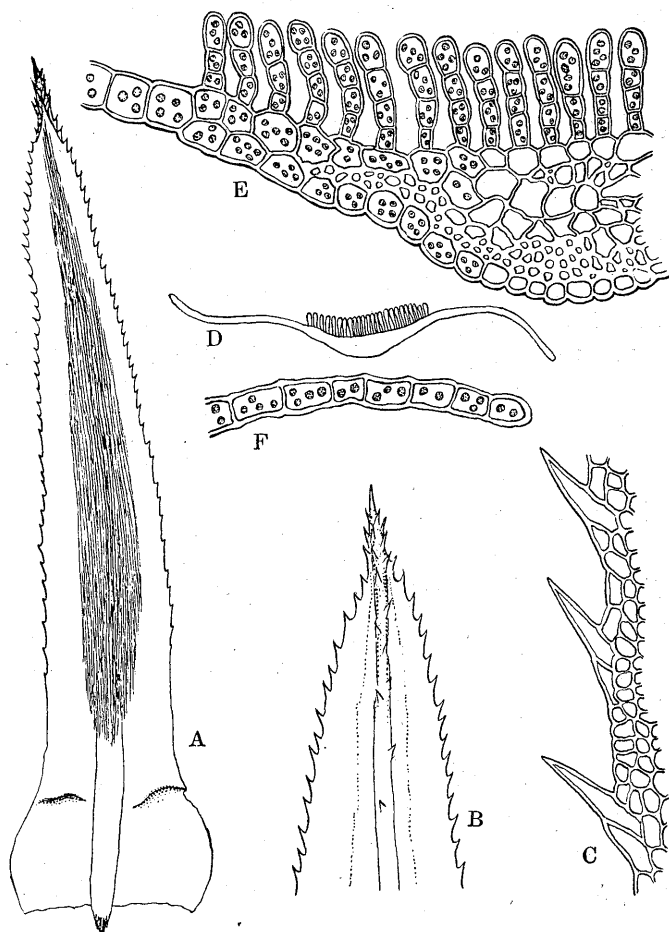
Distr. Japan Proper, Quelpært, Korea.

This is a new addition to the flora of Yakushima.

54) **Pogonatum manchuricum** HORIKAWA, sp. nov.

Dioicum; sat gracile, caespitosum, caespitibus densis, viridibus. Caulis erectus, ad 3.6 cm. altus, cum foliis ca. 15 mm. crassus, rubiginosus, basi dense hyalino-radiculosus, laxiuscule foliosus, simplex. Folia infima minuta, deinsensim majora, sicca crispata et leviter contorta, humida patentia, leviter concava, in plano basi breviter ovata, late lanceolata, acuminata, ad 8 mm. longa, basi 1.7 mm. medio 1 mm. lata, marginibus vaginali integris, in lamina tota denseque aculeato-serratis, dentibus unicellularibus, leviter crassis, longe acuminatis; nervo humillimo, in medio folii ca.  $76\mu$  alto, postice leviter convexo, antice vix concavo, in aristam excedente, superne dorso apicem parce acute serrato; ventre lamellis ca. 23 seriatis, latitudinem folii ca.  $1/3$  occupantis, in sectione transversali altiora ( $50-56\mu$ ), usque 4-cellulas constructis, cellulis quadrato-rotundatis, cellula apicali paulum longiore et majore, clavata, lævi; cellulis laminaribus unistratis, rotundato-hexagonis, leviter incrassatis,  $18-22\mu$  in diam., basilaribus rectangularibus, chlorophyllosis opacis, ca.  $15\times 48\mu$  in diam. Cætera desunt.

Hab. On moist soil.



Text-fig. 10. *Pogonatum manchuricum* HORIKAWA. A. Leaf,  $\times 14$ . B. Apical portion of leaf, postical view,  $\times 29$ . C. Marginal part of leaf,  $\times 160$ . D. Cross-section of leaf,  $\times 46$ . E. Middle part of ditto,  $\times 336$ . F. Marginal part of ditto,  $\times 336$ .

A. 葉  $\times 14$ . B. 葉ノ先端部、背面觀  $\times 29$ . C. 葉ノ縁邊部  $\times 160$ . D. 葉ノ横斷部面  $\times 46$ . E. 同上ノ中央部  $\times 336$ . F. 同上ノ邊緣部  $\times 336$ .

Manchuria: ca. Wei-Hu-Ling [威虎嶺], prov. Kirin (Y. HORIKAWA, July 23, 1935).

This new species is most nearly to *Pogonatum hetero-proliferum* HORIKAWA, but differs from the latter by the broader and shorter sheath, aristate

mid-rib, far numerous rows of lamellæ and the character found in the lamellæ of the leaves.

55) **Pogonatum spurio-cirratum** BROTHÉRUS in Philip. Journ. Sci. V. 2, Sect. C. Bot. (1910) p. 150.

Nom. Jap. Hôrai-sugigoke.

Hab. On the sandy soil.

Liukius: Mt. Ebôshidake, ins. Amamiôshima (Y. HORIKAWA, March 24, 1934); Mt. Gozadake, ins. Iriomotejima (Y. HORIKAWA, Apr. 7, 1934).

Distr. Philippines, China (Yunnan), Formosa, Yakushima, Japan Proper.

This species is new to the flora of Liukius.

43) じゃごけ (*Conocephalus conicus* (L.) NECKER) が滿洲ニモ分布スルコトガ初メテ解ツタ。即チ吉林省威虎嶺附近ノ密林下ニテ筆者自ラ採集シタ。

44) 極北地方並ニ高山地帯トニ見ラレル大形葉狀ノあかぜにごけ (*Preissia quadrata* (SCOP.) NEES) ヲ筆者ハ先年樺太ノ近幌附近海岸デやまはなさノ群生スル岩石間ニ採ルコトガ出来タ。コレガ本種ノ樺太ニ産スルコトノ初メテノ報告デアル。

45) 今日迄幾多ノ珍植物ヲ報ゼラレテ有名トナツタ臺灣ノ太平山ニテ天然更新ノ研究ニ必要ナソノ地ノ苔蘚類ガ種名鑑定ノタメ澤山筆者ニ送ラレテ來タ。

ソノ中ニ *Hymenophyllum* ノ生葉上ニ着ク *Lophozia* 屬ノ立派ナ1種ガアリ第9圖ニ示ス様ニ葉ハ4-5ノ裂片ニ分レ、各裂片ハ多數ノ剛毛ヲ具ヘ殊ニソノ先端部ノ剛毛ハ頗ル長ク、今日迄カカル特徴アルモノハ記載サレテキナイノデ茲ニ學名ヲ ***Lophozia pilifera*** HORIKAWA ト命名スル。

46) 莖葉、枝葉共ニ水囊ヲ具フルコトデ著ルシイみやまいねむくむくごけ (*Trichocoleopsis sacculata* (MITT.) S. OKAMURA) ガ濟州島ニモ亦産スル。即チ先年鮮干起君ガ漢羅山中腹ニ之ヲ採集シタ。

47) 同屬中最モ大形ナコトデ有名ナふたへうろごけ *Diplophyllum plicatum* LINDB. ヲ筆者ハ昨年8月朝鮮デハ初メテ金剛山中ノ毘盧峰ニ採集スルコトガ出来タ。

48) ほそばふたへうろごけ (*Diplophyllum taxifolium* (WAHL.) DUM.) モ朝鮮デハ初メテ金剛山中ノ毘盧峰ニ分布スルコトヲ確カメ得タ。

49) やりかつぎト云フ和名ヲモツ *Encalypta ciliata* (HEDW.) HOFFM. ヲ筆



者ハ昨夏白頭山ニ採集シタ。コレ本種ガ朝鮮ニ産スルコトノ最初ノ報知デアル。

50) 葉ニ極メテ強イ光澤ト縦褶トヲ持ツ美麗ナ熱帶蘚ノ種 (*Breutelia arundinifolia* (DUB.) FL.) ガ臺灣デハ初メテ新高山ノたーたか、前山間ニ於テ筆者ニヨツテ採集サレタ。

51) 樹皮上産ノ小蘚タル さやごけ (*Glyphomitrium humillimum* (MITT.) CARD.) ガ津輕海峡ヲ越エテ北海道ニモ産スルコトガ今度初メテ解ツタ。

52) 葉ノ表裏兩面ニ著ルシイ疣狀突起ヲ具ヘルぬくびごけ (*Diphyscium fuvifolium* MITT.) ハ長ラク舊日本ニ固有ナモノトサレテ來タガ筆者ハ先キニ屋久島臺灣ニマデ本種ノ分布スルコトヲ報告シタガ更ニ今度ハ朝鮮半島ニモ産スルコトガ明瞭トナツタ。

53) ひろはのこすぎごけ (*Pogonatum asperrium* BESCH.) モ從來舊日本特産トサレテ居タノヲ筆者ハ最近濟州島、朝鮮半島ニ産スルコトヲ報ジタガ今回ハ更ニ本種ガ屋久島ニモ産スルコトヲ確メ得タ。即チ今日デハ屋久島ガ本種ノ南限地トナルワケデアル。

54) 筆者ガ滿洲國吉林省下ノ密林地帯タル威虎嶺附近ノ馬安山カラ持チ歸ツタにはすぎごけ屬ノ中ニ *Pogonatum manchuricum* HORIKAWA ト名ヅクル1新種ガアル。之ニ最モ近イモノハ *Pogonatum hetero-proliferum* HORIKAWA デアルガソレトハ①葉鞘ハ遙カニ廣クテ短イ。②中肋ハ葉ノ先端遙カニ伸出スル。③らめらノ數ハ遙カニ數多ク、各列ハ各4個ノ細胞カラナリ、且ツソノ頂端細胞ハ棍棒狀ヲナシテ他ノ細胞ヨリ稍大形。④葉ノ齒ハ遙カニ下方マデアツテ單細胞カラナリ鋭尖ヲナス等ノ諸點デ容易ニ區別スルコトガ出來ル。

55) 最初フィリッピン群島ノルゾン島ニテ見出サレ、ソノ後臺灣ニモ産スルコトガ知ラレタノデほうらいすぎごけト云フ和名ヲモツ (*Pogonatum spurio-cirratum* BROTH.) ヲ筆者ハ奄美大島ノ烏帽子岳ト西表島ノ御座岳トニ採集シタ。之ガ本種ノ琉球列島ニモ産スルコトノ初メテノ報告デアル。